

### PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 2 AND EARLEIGH HEIGHTS RD./MAGOTHY BEACH RD. IN ANNE ARUNDEL COUNTY. MD 2 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

### INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA SIX-PHASE, SEMI-TRAFFIC-ACTUATED MODE WITH EXCLUSIVE LEFT TURN PHASES FOR MD 2, SIDE STREET SPLIT PHASING AND A WESTBOUND FIREHOUSE PRE-EMPTION. THIS PHASING WILL NOT CHANGE. THIS PROJECT WILL INVOLVE MILLING, RESURFACING AND REMARKING MAGOTHY BRIDGE TO PROVIDE A DOUBLE LEFT TURN LANE, A THROUGH LANE AND A RIGHT TURN LANE. WORK WILL INCLUDE SIGNING, PAVEMENT MARKING AND DETECTOR REPLACEMENT.

### CONTROLLER REQUIREMENTS

THE EXISTING EIGHT-PHASE, FULLY-ACTUATED CONTROLLER HOUSED IN A BASE MOUNTED CABINET WILL BE USED.

### EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

### EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

QUANTITY	DESCRIPTION
1 LS	MAINTENANCE OF TRAFFIC
60 LF	24 IN. WHITE HEAT APPLIED WHITE THERMOPLASTIC PAVEMENT MARKINGS
10 LF	1 IN. FLEXIBLE, LIQUID-TIGHT CONDUIT (DETECTOR SLEEVE)
1 LS	REMOVE AND DISPOSE MATERIAL AND EQUIPMENT
150 LF	SAW CUT FOR SIGNAL (LOOP DETECTOR)
1 EA	MICRO-LOOP PROBE WITH LEAD-IN
1 EA	R3-SL (30" X 36") SIGN - SPAN MOUNT
1 EA	RELOCATE EXISTING SIGN - SPAN MOUNT
SHA ROW MEDIAN WORK	
16 SY/IN	2 IN. HOT MIX ASPHALT SURFACE COURSE SUPERPAVE 12.5MM
54 SY/IN	6 IN. HOT MIX ASPHALT BASE COURSE SUPERPAVE 19.0MM
108 SY/IN	12 IN. GRAVEL BASE COURSE
27 LF	8 IN. CURB AND GUTTER
24 LF	8 IN. CURB AND GUTTER REMOVAL

### CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

MRS. KIM TRAN  
ASSISTANT DISTRICT ENGINEER - TRAFFIC  
(410) 841-1003

MR. JOHN MAYS  
ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
(410) 841-1002

MR. JOE HORTY  
UTILITY ENGINEER  
(410) 841-1005

### CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR.  
CHIEF, TRAFFIC OPERATIONS  
(410) 787-7630

MR. EUGENE BAILEY  
TEAM LEADER SIGN OPERATIONS  
(410) 787-7676

MR. ROBERT SNYDER  
ASSISTANT DIVISION CHIEF,  
TRAFFIC OPERATIONS  
(410) 787-7631

MS. DARLENE EIDE  
SUPPLY OFFICE  
SIGNAL SHOP WAREHOUSE  
(410) 787-7668

MR. ED RODENHIZER  
CHIEF - SIGNAL OPERATIONS SECTION  
(410) 787-7652

### EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

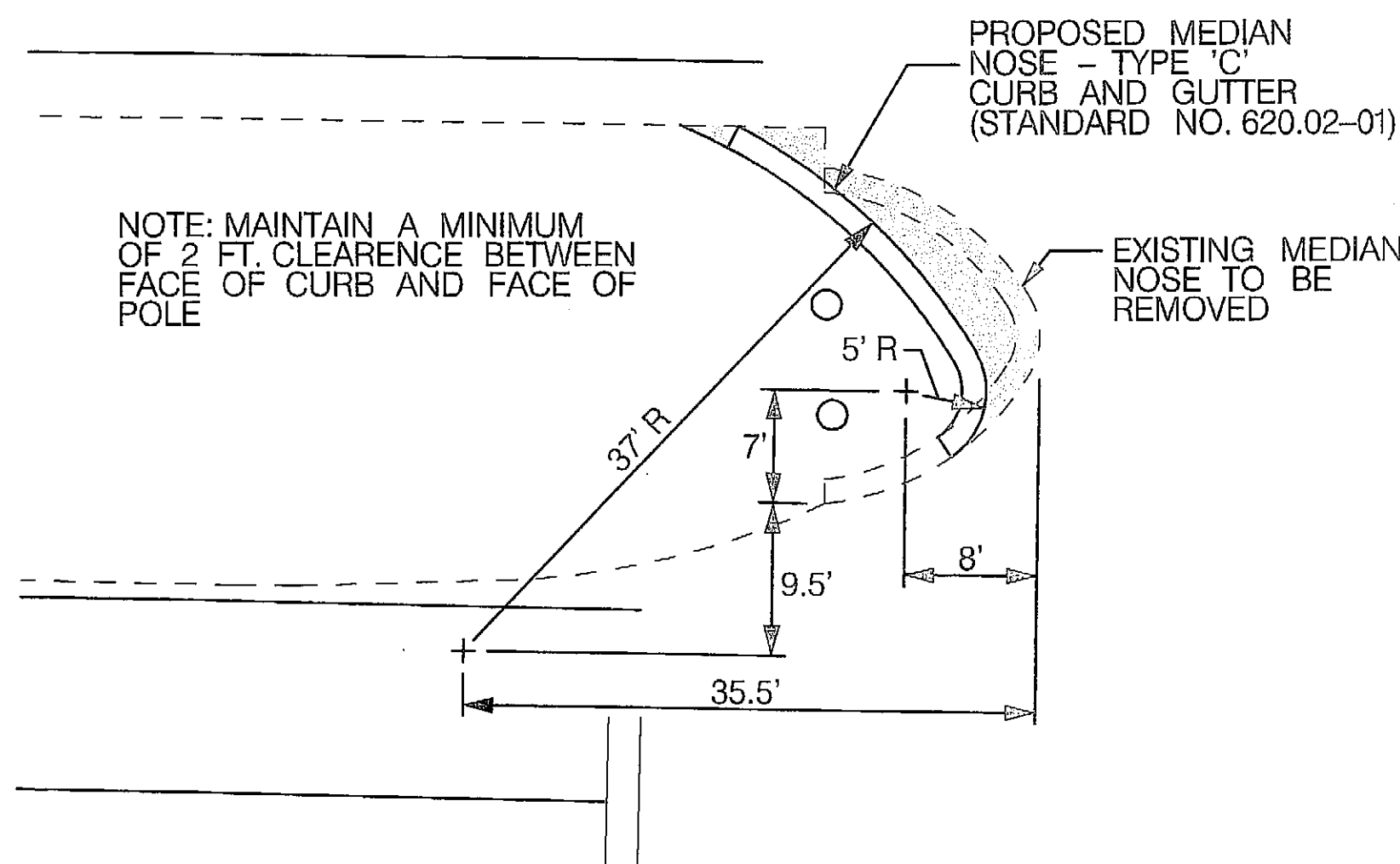
ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

### PHASE CHART

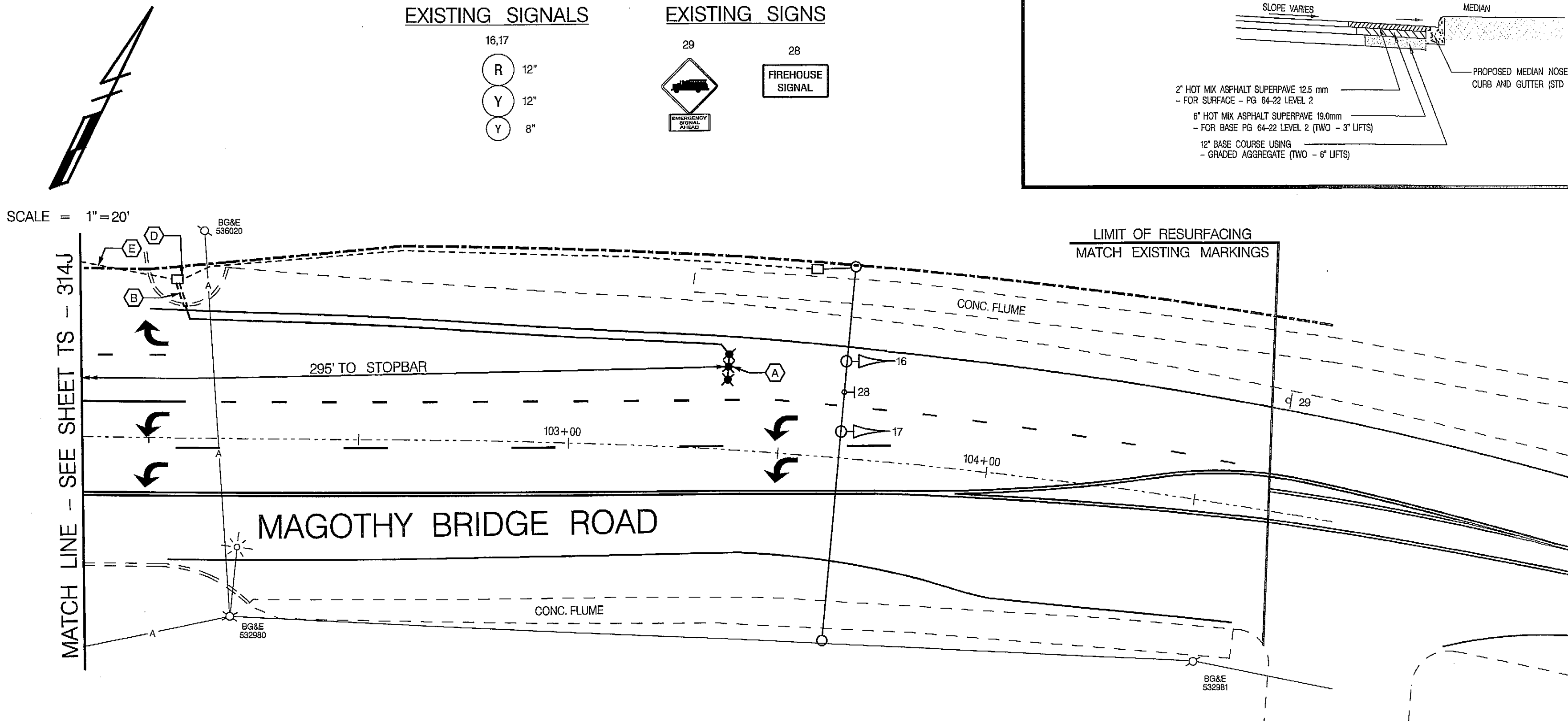
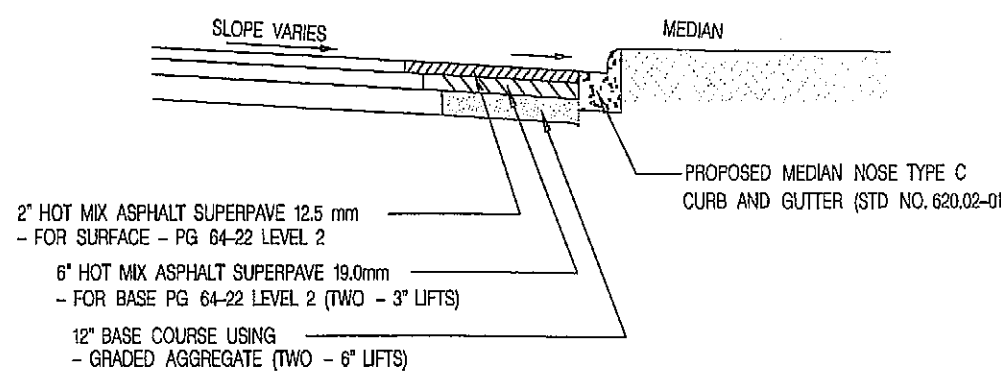
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
PHASE 1 & 5	←G	←G	R	R	G	←G	←G	R	R	R	R	R	R	FLR	FLR	FLY	FLY
1 & 5 CHANGE	←G	←G	G	G	G	←R	←R	R	R	R	R	R	R	FLR	FLR	FLY	FLY
PHASE 1 & 6	←G	←G	G	G	G	←R	←R	R	R	R	R	R	R	FLR	FLR	FLY	FLY
1 & 6 CHANGE	←Y	←Y	G	G	G	←R	←R	R	R	R	R	R	R	FLR	FLR	FLY	FLY
PHASE 2 & 5	←R	←R	R	R	R	←G	←G	G	G	R	R	R	R	FLR	FLR	FLY	FLY
2 & 5 CHANGE	←R	←R	R	R	R	←Y	←Y	G	G	R	R	R	R	FLR	FLR	FLY	FLY
PHASE 2 & 6	←R	←R	G	G	G	←R	←R	G	G	R	R	R	R	FLR	FLR	FLY	FLY
2 & 6 CHANGE	←R	←R	Y	Y	Y	←R	←R	Y	Y	R	R	R	R	FLR	FLR	FLY	FLY
PHASE 3	←R	←R	R	R	R	←R	←R	R	R	R	R	R	R	FLR	FLR	FLY	FLY
3 CHANGE	←R	←R	R	R	R	←R	←R	R	R	R	R	R	R	FLR	FLR	FLY	FLY
PHASE 4	←R	←R	R	R	R	←R	←R	R	R	R	R	R	R	FLR	FLR	FLY	FLY
4 CHANGE	←R	←R	R	R	R	←R	←R	R	R	R	R	R	R	FLR	FLR	FLY	FLY
PRE-EMPTION	←R	←R	R	R	R	←R	←R	R	R	R	R	R	R	FLY	FLY	R	R
CHANGE	←R	←R	R	R	R	←R	←R	R	R	R	R	R	R	FLY	FLY	R	R
FLASHING OPERATION	←FLR	←FLR	FLY	FLY	FLY	←FLR	←FLR	FLY	FLY	FLR	FLR	FLR	FLR	FLR	FLY	FLY	FLY

### MEDIAN DETAIL

SCALE: 1" = 10'



### TYPICAL ROAD SECTION



### CONSTRUCTION DETAILS

- INSTALL MICRO-LOOP PROBE
- INSTALL 1 IN. LIQUID-TIGHT, NON-METALLIC CONDUIT (DETECTOR SLEEVE)
- INSTALL R3-SL SIGN ON EXISTING SPAN WIRE
- USE EXISTING HANDHOLE
- USE EXISTING CONDUIT
- USE EXISTING SPAN WIRE
- USE EXISTING BASE MOUNTED CABINET AND CONTROLLER
- INSTALL 24 IN. SOLID WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING

### TRAFFIC CONCEPTS, INC.

325 Gambrills Road  
Suite B  
Gambrills, MD 21054  
(410) 923-7101  
FAX: (410) 923-6473  
EMAIL: TRAFFIC@TRAFFIC-CONCEPTS.COM

FILE PATH: M:\2400\2493\SIGNAL\gl.dgn  
DATE: Thursday, November 05, 2009 AT 12:43 PM



STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION

MD 2 AND EARLEIGH HEIGHTS ROAD/  
MAGOTHY BRIDGE ROAD

### GENERAL INFORMATION PLAN

SCALE	AS SHOWN	DATE	10-28-09	CONTRACT NO.	BW996M82
DESIGNED BY	T. ZAYDEL	COUNTY	ANNE ARUNDEL		
DRAWN BY	T. ZAYDEL	LOGMILE	02000231.23		
CHECKED BY	K. SCHMID	T.I.M.S. NO.			
F.A.P. NO.	NA	TOD NO.			
DRAWING NO.	TS-314J GI	SHEET NO.	2	OF	2